JVC

SERVICE MANUAL

STEREO CASSETTE DECK

MODEL TD-W10 A/B/C/E/G/J/U

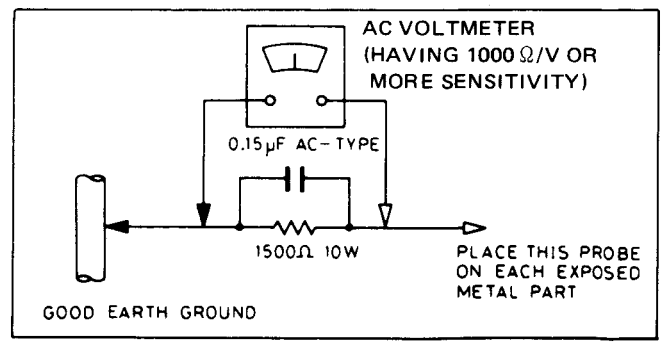
Contents

	Page
Safety Precautions	2
Specifications	3
Location of Main Parts	3
Names of Parts and Their Functions	4
Removal of Main Parts	5
Main Adjustment	7
Block Diagram	10
Standard Schematic Diagram of TD-W10	11
Main P.C. Board Parts and Parts List	12
Wiring Connection	15
Exploded View of Mechanism Ass'y	16
Exploded View of Enclusore Ass'y	17
Dimension	22
Packing Parts List	23
Accessories	Back Cover

No. 4255
July 1985

Safety precaution

1. The design of this product contains special hardware. Many circuits and components specially for safety purposes.
   For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by then necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by (⚠) on the schematics and parts list in Service manual. The use of a substitutue replacement which does not have the same safety characterisitics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings barriers and/or the like to be separated from live parts, high temperature part, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.
5. Leakage current check
   (Safety for electrical shock hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc,). Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method.
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or mroe sesitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.).
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured musy not exceed 0.75 V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).



Specifications

Type	: Stereo double cassette deck
Track system	: 4-track, 2-channel
Tape speed	: 1-7/8 inch/sec(4.8 cm/sec)
Frequency response	: (0 dB recording) Metal tape ; 40 – 11,000 Hz (±3 dB) Chrome tape ; 40 – 8,000 Hz (±3 dB) Normal tape ; 40 – 8,000 Hz (±3 dB) (-20 dB recording) Metal tape ; 30 – 16,000 Hz 40 – 15,000 Hz (±3 dB) Chrome tape ; 30 – 16,000 Hz 40 – 15,000 Hz (±3 dB) Normal tape ; 30 – 15,000 Hz 40 – 14,000 Hz (±3 dB)
S/N ratio	: 58 dB (S = 1 kHz, K3 = 3 % N = A-Weighted, Metal tape) The S/N is improved by 5 dB at 1 kHz and by 10 dB above 5 kHz with ANRS/DOLBY B NR on.
Wow and flutter	: 0.08 % (WRMS), 0.20 % (DIN 45 500)
Crosstalk	: 60 dB (1 kHz)
Harmonic distortion	: K3; 0.5 %, THD; 1.0 % (metal tape, 1 kHz 0 dB)
Heads	: Deck **A**; METAPERM head for playback Deck **B**; METAPERM head for recording/ playback, 2-gap ferrite head for erasure
Motors	: Electronic governed DC motor for capstan/reel x 1 (For both decks **A** and **B**)
Fast forward/Rewind time	: Approx. 100 sec. with C-60 cassette
Input terminals Input jack x 2	: Min. input level; 80 mV Input impedance; 50 kΩ
Output terminals Output jack x 2	: Output level; 300 mV Output impedance; 5 kΩ
Power requirement	: AC 240 V, 50/60 Hz (TD-W10A) AC 120 V, 60 Hz (TD-W10C/J) AC 240/220/115 V, 50/60 Hz (TD-W10U)
Power consumption	: With power on 13 W With power switch off 0.8 W
Dimensions	: 17-1/8" (435 mm) W 4-11/16" (118 mm) H 9-3/8" (237 mm) D
Weight	: 8.4 lbs (3.8 kg)
Accessories	: Pin plug cord . . . 2

Design and specifications are subject to change without notice.

Location of Main Parts

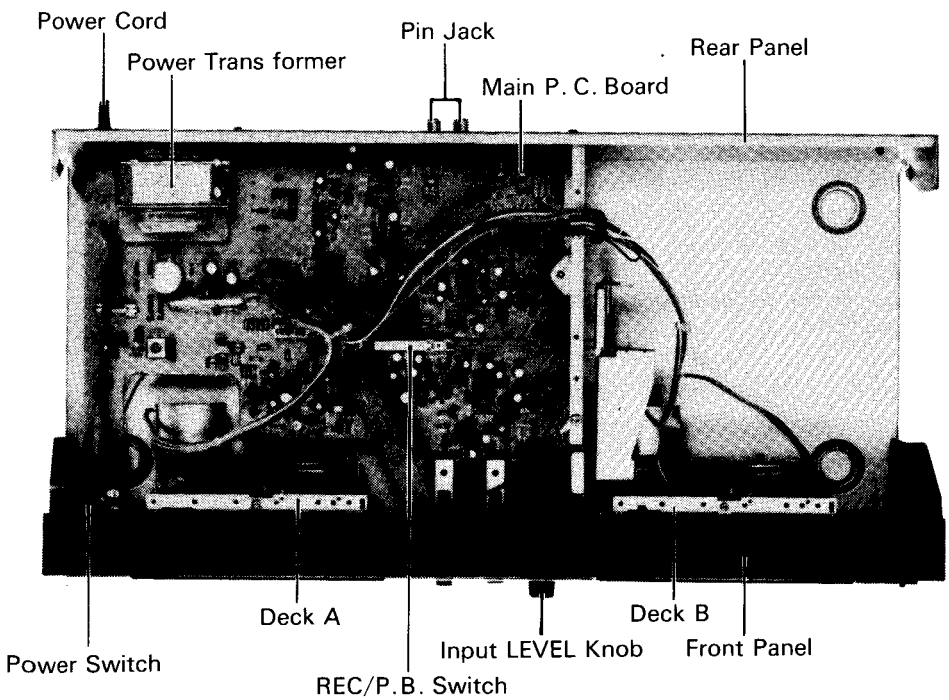


Fig. 1

Names of Parts and Their Functions

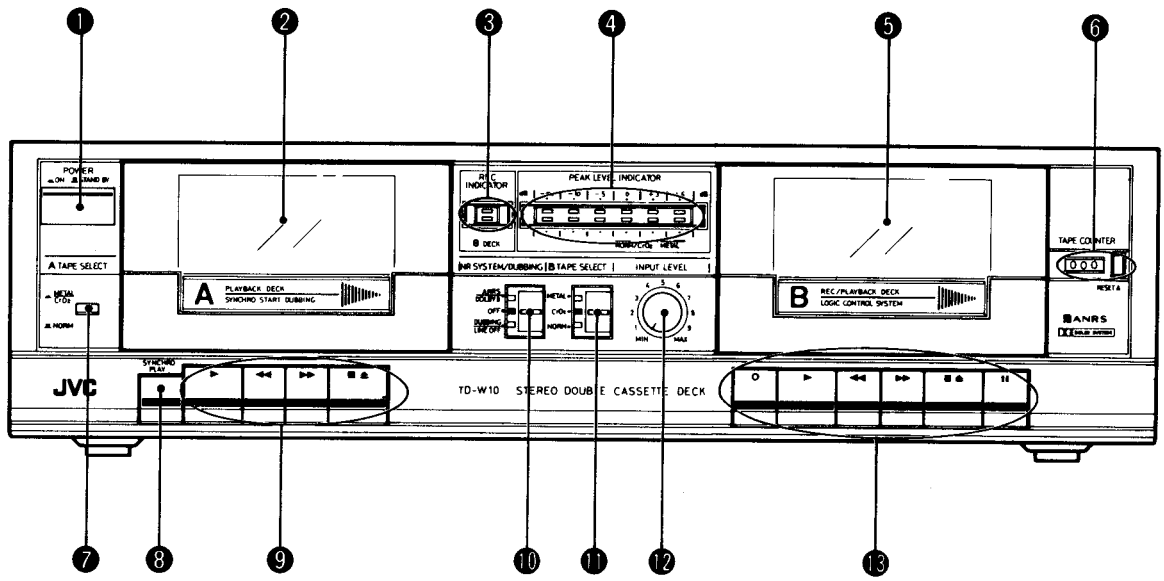


Fig. 2

❶ **POWER switch**

❷ **Cassette holder (deck A)**

❸ **REC INDICATOR**

❹ **PEAK LEVEL INDICATOR**

These indicate the recording level during recording and output level during playback. The LED indication varies with the signal strength during recording and playback.

They indicate the average recording level of the left and right channels.

❺ **Cassette holder (deck B)**

❻ **TAPE COUNTER and RESET button**

❼ **TAPE SELECT button (deck A)**

When playing back a cassette, set this button to match the type of cassette. (See "TAPE SELECT button and switch" on page 10.)

❽ **SYNCHRO PLAY button**

Press this button when performing synchro dubbing. (See page 11.)

❾ **Cassette operation buttons (deck A)**

►(play) button:

Press to play the tape.

◄◄(rewind) button:

Press to rewind the tape.

►►(fast forward) button:

Press to fast forward the tape.

■/≜(stop/eject) button:

Press to stop the tape. Pressing this button after the tape stops opens the cassette holder. (The tape automatically stops when it reaches the end.)

❿ **NR SYSTEM/DUBBING switch**

⓫ **TAPE SELECT switch (deck B)**

Select the switch position according to the tape to be used during recording and playback. (See "TAPE SELECT button and switch" on page 10.)

⓬ **INPUT LEVEL control**

⓭ **Cassette operation buttons (deck B)**

○(record) button:

Press to record the tape.

❚❚(pause) button:

Press to temporarily stop the tape in the record or playback mode. Press it again to release the pause mode and restart the tape.

The other operations of the buttons are the same as those of deck **A**.

Removal of Main Parts

Enclosure Section

- **Removal of Top Cover**
  1. Remove six screws retaining the both sides of the top cover.
  2. Remove two screws retaining the back side of the top cover.
- **Removal of Bottom Cover**
  1. Remove three screws retaining the front side of the bottom cover.
  2. Remove three screws retaining the rear side of the bottom cover.
- **Removal of Rear Panel**
  1. Remove three screws retaining the pin jack and chassis to the rear panel.
  2. Remove four screws retaining Power Trans.
  3. Remove two plastic rivet retaining the DIN jack to the rear panel. (TD-W10G)
- **Removal of Front Panel**
  1. Remove three screws (1) and (2) front panel.
  2. Remove one screw (3) retaining the earth wire with the mechanism ass'y.
  3. Remove one screw fixing the AMP P.C.B. to left side of Front Panel.
  4. Pull out input level knobs.
- **Removal of Mechanism Ass'y**
  (Deck B)
  1. Remove the counter belt.
  2. Remove four screws (4) and (5) retaining the Deck B.
  3. Open the cassette lid by depressing the STOP/EJECT button.
  4. Remove the cassette holder from the mechanism ass'y by disengaging its fulcrums on the both sides. (See Fig. 5-B.)

  Note: When reassembling the cassette holder, set the holder spring in the right foot of the holder prior to reassembly.

  (Deck A)
  1. Remove four screws (6) and (7) retaining the Deck A.
  2. Open the cassette lid by depressing the STOP/EJECT button.
  3. Remove the cassette holder from the mechanism ass'y by disengaging its fulcrums on the both sides. (See Fig. 5-B.)

  Note: When reassembling the cassette holder, set the holder spring in the right foot of the holder prior to reassembly.
- **Removal of Tape Counter**
  1. Remove one screw (8).
- **Removal of Damper**
  1. Remove one screw (9)(Deck A) or (10) (Deck B).
- **LED Indicator**
  Remove two screws (11) retaining the indicator board ass'y.

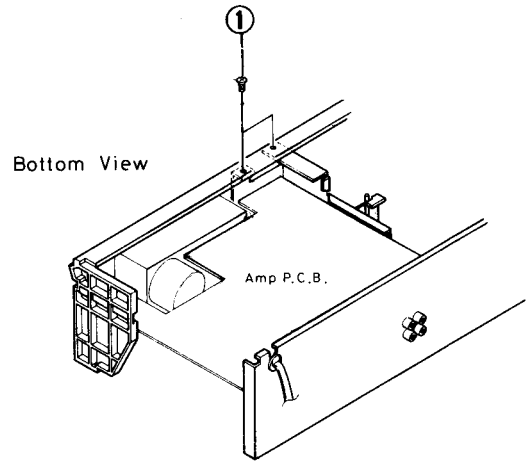


Fig. 3

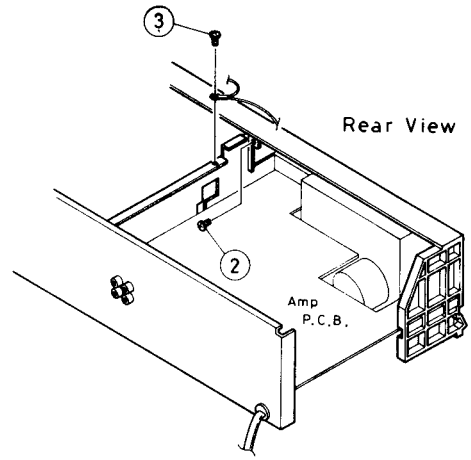


Fig. 4

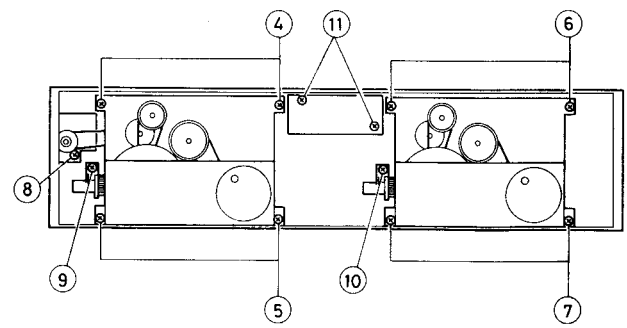


Fig. 5

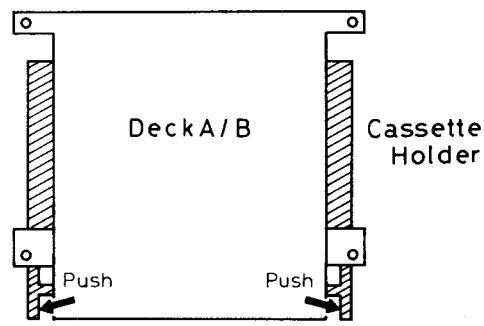


Fig. 5-B

■ **Removal of Power Switch (See Fig. 6)**

1. Push the switch knob outward to remove it.
2. Push the switch ass'y in the direction of the arrow to remove it.

Note : When reinstalling the switch ass'y :

1) Set the switch to its ON position.
2) Fix it as shown in the right figure.
3) Set the knob to the switch.

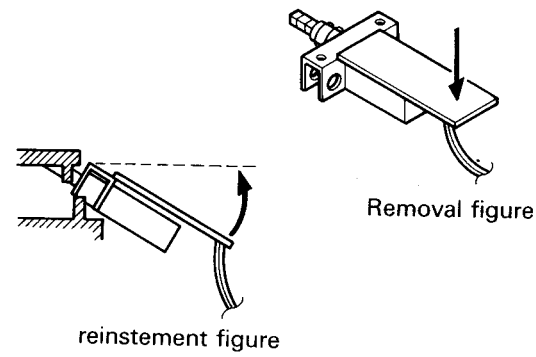


Fig. 6

Mechanical parts

- **Rec./PB head (Deck B) PB head (Deck A)**
  1) Remove 2 screws (31) for the button assembly.
  2) Remove a screw (32) .
  3) Loosen a screw (33) for adjustment.
- **Erase head (Deck B) Dumy head (Deck A)**
  1) Remove a screw (34) .
  2) Remove a screw (35) for adjustment.
- **Pinch roller arm assembly**
  1) Remove a stopper (36) holding its assembly, and pull it off from the shaft.
- **Supply reel disc assembly**
  1) Pull out the E ring (37) and remove its disc from the shaft.
- **Take-up reel disc**
  1) Pull out the E ring (38) and remove it from the shaft.
- **Motor**
  1) Remove three screws (39) , (40) and (41) fastening the FM bracket. (When removing the FM bracket (42), remove with the main belt (43) and the RF belt (44) .)
  2) Remove three screws (45) fastening the motor.
  3) Pull out the motor pulley from the motor shaft.

  Note: Be careful not to stain the main belt and RF belt. (When assembling the motor pulley, adjust the pulley position as next figure.)

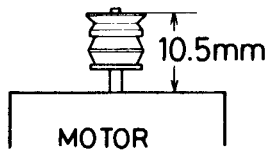


Fig. 7

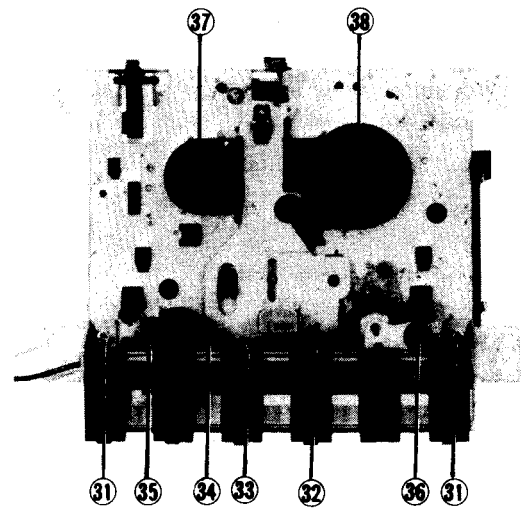


Fig. 8

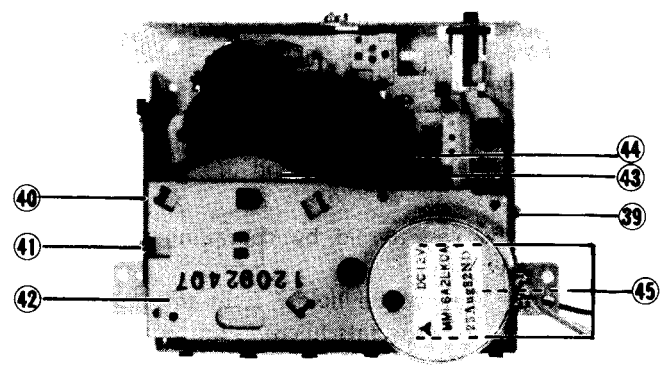


Fig. 9

- **Flywheel assembly**
  Pull out the flywheel from the capstan metal.

Main Adjustment

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

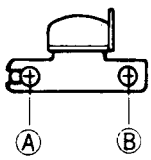
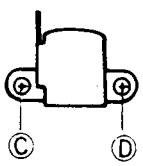
1) Electronic voltmeter
2) Audio frequency oscillator (range: 50 – 20 kHz and output 0 dB with impedance 600 Ω)
3) Attenuator
4) Standard tapes for REC/PB
   Maxell UD – Norom (SF) tape . . .
   TDK SA – Chrome (SA) tape. . . . } – or equivalent
   JVC ME – Metal tape . . . . . .
5) Reference tapes for playback (JVC Test Tape)
   VTT703L (for head azimuth adj.)
   VTT712 (for motor speed, wow flutter adj.)
   VTT739 (for playback frequency response)
6) Resistor 600 Ω (for attenuator matching)

2. Mechanical adjustment

1) Torque testing cassette gauge, CTG-N.

[II] Mechanical adjustment

(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting record/playback head position 	1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT703L test tape. 3. Adjust the head angle with the screw Ⓐ until the reading of the electronic voltmeter becomes maximum for both channels. 4. After adjusting, set the screw with screw bond.	Screw Ⓐ	Maximum	If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one. After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary. If the output difference between the left and right channels exceeds 3 – 4 dB, the head is defective. Replace it with a new one.
Adjustment erase (dummy) head height 	1. Turn the adjusting screw for aligning the erase head until it stops. Then, turn the screw in the reverse direction by 180° (a ½ revolution). 2. Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw Ⓒ until the tape runs in the center of the erase head tape guide.	Screw Ⓒ		Be sure to perform this adjustment after replacing the erase head. Correct Incorrect
Adjusting motor speed	Connect a speed meter (an electronic counter) to the LINE OUT terminals. Play back the VTT712 test tape. Adjust the semi-fixed resistor in the motor until the reading of the speed meter is 3000 Hz.	Semi-fixed resistor in the motor	Deck A 3010Hz Deck B 3000Hz	If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT712 test tape. Check to see if the reading of the meter is within 0.12% (CCIR).		0.08% (WRMS) 0.2% (DIN 45500)	If the reading becomes moving value even if conforming to the standard, a re-claim may be raised. Repairs are necessary.
Checking playback torque	Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge.		35—75 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.

Item	Adjustment	Adjusting point	Standard value	Remarks
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 70 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt and idler.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 70 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disc circumference, etc.

[III] Electrical adjustments location

Main Amp. P.W. Board (parts assembly side view)

(Turning in the direction of the arrow increases the level.)

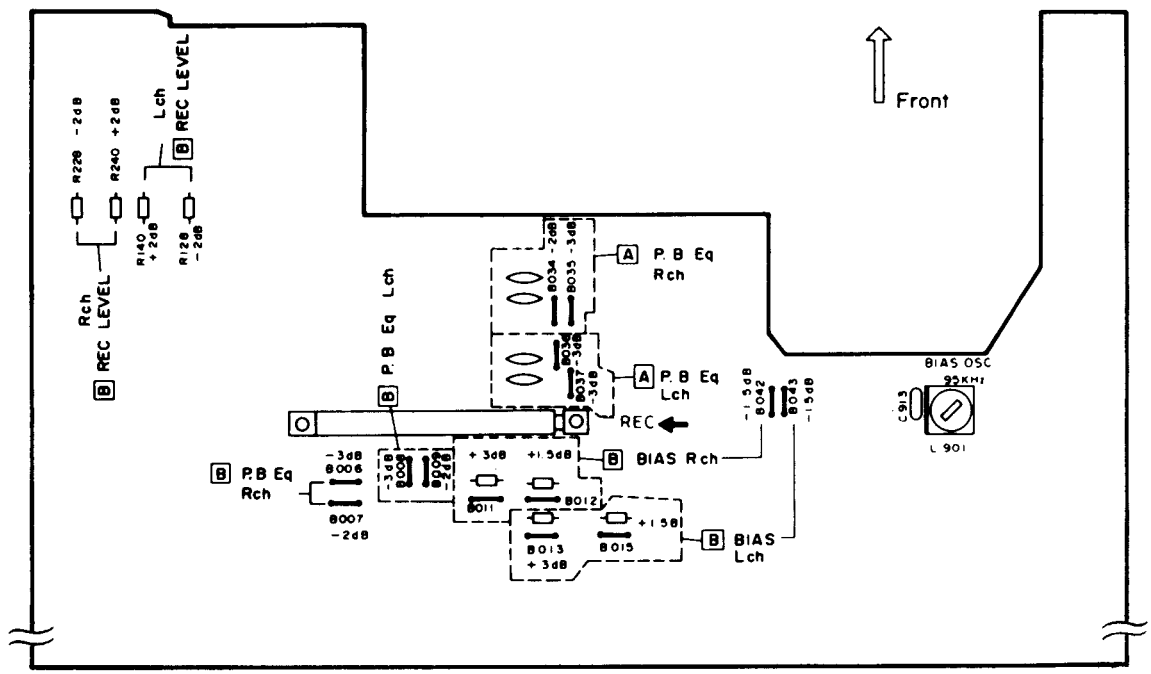


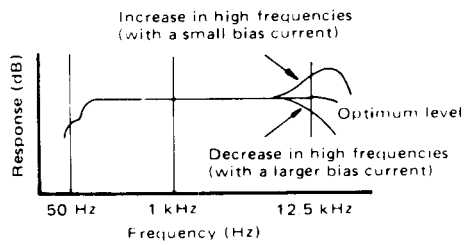
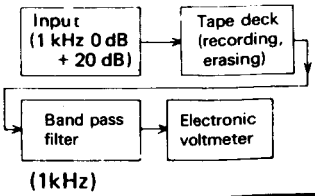
Fig. 10

[IV] Electrical circuit adjustment procedure

In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.

Adjustment should be performed in the order of steps 1, 2, 3, ... Perform this adjustment with the NR SYSTEM switch set to OFF.

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
1	Adjusting frequency response	Playback test tape VTT739 (1 kHz, 10kHz) for following adjustment. 1. Deck A Connect /Disconnect B036 or B037 and B034 or B035 So that 10kHz signal and 1kHz signal agains become flat response.	Lch B036 B037 Rch B034 B035	Reference frequency : 1 kHz 0±2dB at 10kHz	NR SYSTEM : OFF TAPE SELECT : NORM Lch B036 −2.5 dB B037 −1.5 dB Rch B034 −1.5 dB B035 −2.5 dB
		2. Deck B Connect/Disconnect B009 or B008 and B007 or B006 So that 10kHz Signal and 1kHz Signal agains become flat response.	Lch B009 B008 Rch B007 B006		Lch B009 −1.5 dB B008 −2.5 dB Rch B007 −1.5 dB B006 −2.5 dB

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
2	Adjusting bias frequency	Connect the frequency counter to the L901 3 pin through a 1.2MΩ resistor, then adjust L901 so that the counter reads 95 kHz.	L901	95 kHz ±4.75 kHz	METAL Position.
3	Adjusting record/ playback frequency response	Record 1 kHz, 50 Hz and 12.5 kHz signals at an input level of 0 dB to −20 dB. Play back the tape. Check to see that the 50 Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1 kHz signal output as a reference. 	For NORM tape; Lch B013 B015 B043 Rch B011 B012 B042	Reference frequency; 1 kHz 0 ± 3 dB at 50 Hz 0 ± 3 dB at 12.5 kHz	Lch B013 +2.5 dB B015 +1.5 dB B043 −1.5 dB Rch B011 +2.5 dB B012 +1.5 dB B042 −1.5 dB
4	Adjusting recording level	1. Apply a 1 kHz −20 dB Signal to the LINE. in terminals, play back the recorded part, and check so that Line out ter minal level become 0 ± 2.5 dB. 2. If the standard value cannot be obtained, adjust the recording level using R128, and R140 in combination (for L-ch), and R228 and R240 (R-ch), respectively.	Lch R140 R128 Rch R240 R228	0 ± 2.5dB	The level difference between left and right channels for SF/NORM tape and chrome tape should be less than 3 dB. Perform the adjustment using a normal tape, level difference between recording and playback for SA/CrO_2 and metal tapes, should be less than 3 dB, and that between left and right channels should also be less than 3 dB. Lch R140 +1dB Rch R240 +1dB R128 −1dB R228 −1dB
5 *	Checking record/ playback distortion	1. Record a 1 kHz, −8 dB signal to LINE IN terminals and perform recording with the multi-peak becomes to 0. 2. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		NORM tape; Less than 2.0% CrO_2 tape; Less than 2% Metal tape; Less than 2% (THD)	Be sure to perform this checking following bias current and record-ing level checking.
6 *	Checking signal to noise ratio in recording/ playback	1. Record a 1 kHz, 0 dB signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2. Play back the recorded part. Measure the 0 dB recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		NORM, CrO_2 and Metal tapes; More than 42 dB	Apply an output −20 dB to LINE in with the recording level controls set to maximum so that the multi-peak indicator be-comes 0 dB.
7 *	Checking erasing coefficient	1. Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the multi-peak indicator becomes 0 dB. 2. Perform recording with the signal enhanced by 20 dB. 3. Erase a part of the recording. 4. Measure the output difference be-tween the erased part and non-erased part to compare with an electronic voltmeter.		More than 65 dB	For the measuring, connect a band pass filter between the deck and the electronic voltmeter. 

Block Diagram

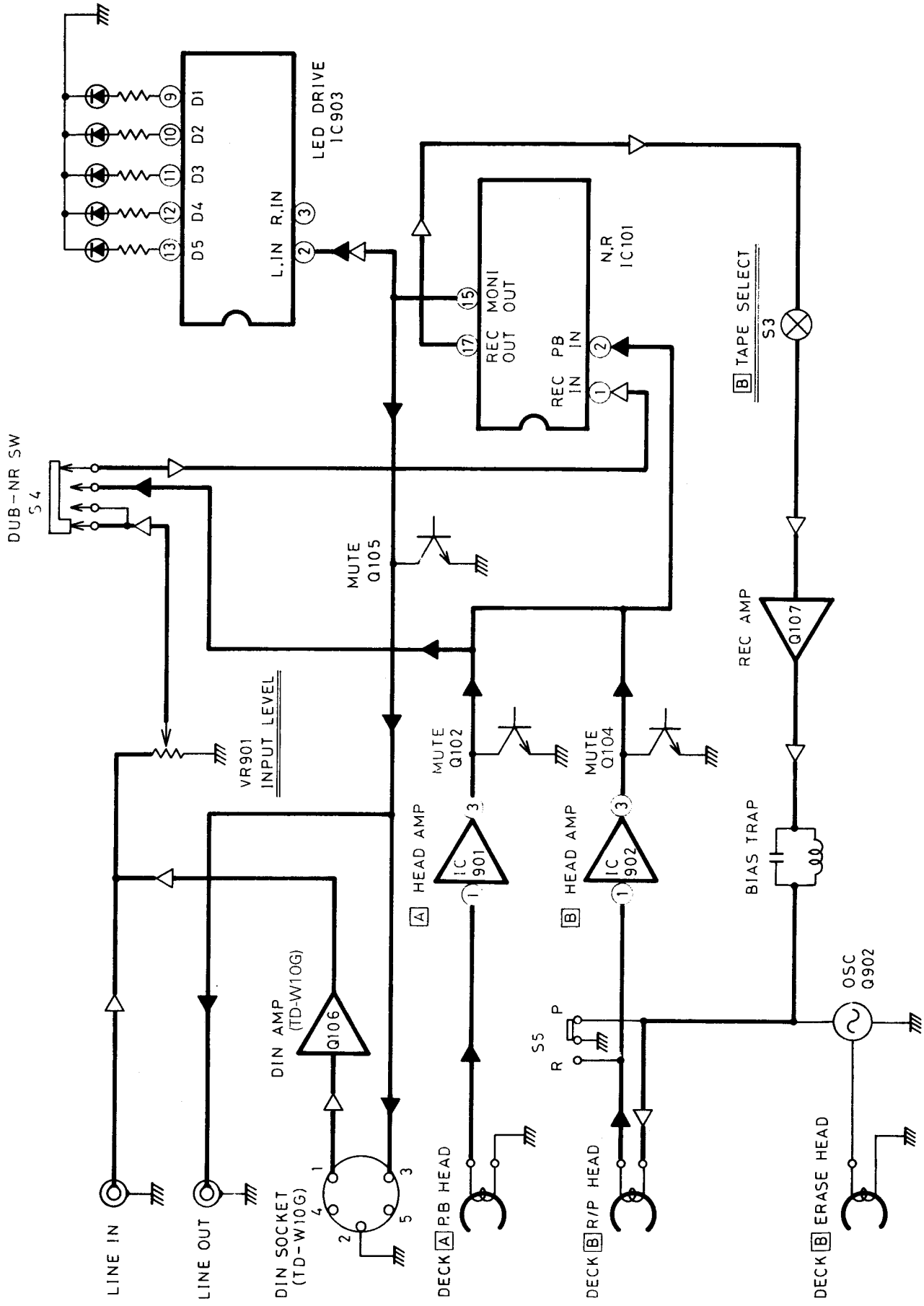
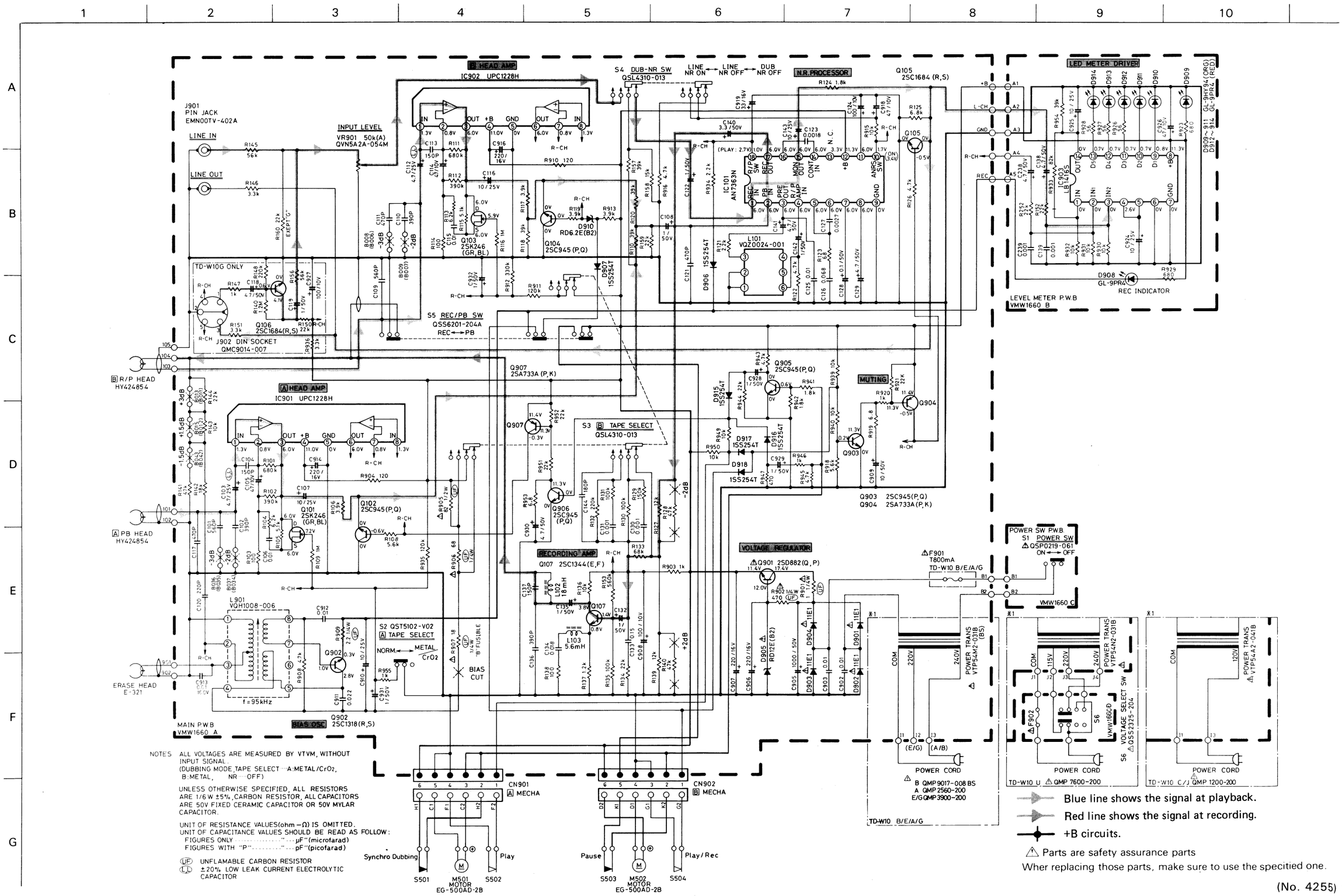


Fig. 11

Standard Schematic Diagram of TD-W10



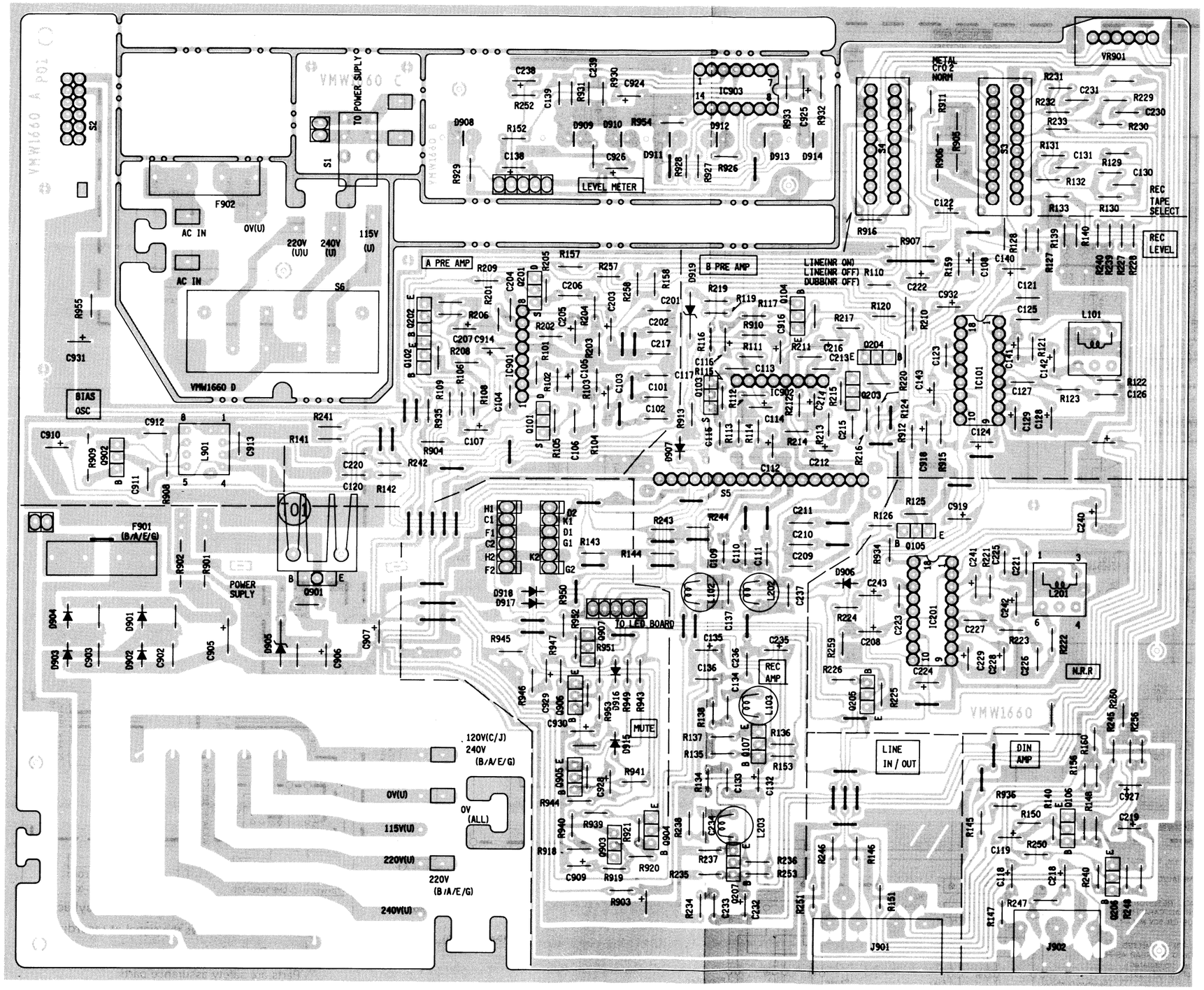
NOTES ALL VOLTAGES ARE MEASURED BY VTVM, WITHOUT INPUT SIGNAL.
(DUBBING MODE, TAPE SELECT ···A:METAL/CrO2, B:METAL, NR ···OFF)

UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/6 W ±5%, CARBON RESISTOR, ALL CAPACITORS ARE 50V FIXED CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.

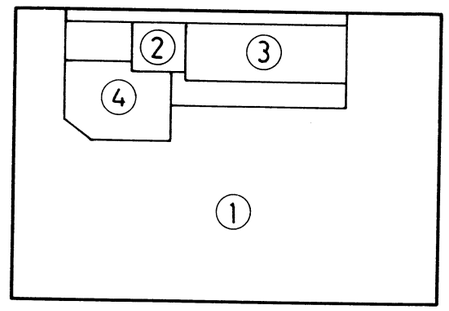
UNIT OF RESISTANCE VALUES(ohm −Ω) IS OMITTED.
UNIT OF CAPACITANCE VALUES SHOULD BE READ AS FOLLOW:
FIGURES ONLY ····· "μF"(microfarad)
FIGURES WITH "P" ····· "pF"(picofarad)

(UF) UNFLAMABLE CARBON RESISTOR
(LL) ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR

P. C. Board and Parts List



Parts Side



① Main P.C.B.
② Power P.C.B.
③ LED P.C.B.
④ Voltage Select P.C.B. (TD-W10U Only)

Fig. 13

Main P.C.Board Parts List

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QTY
	IC101,IC201	AN7363N	I.C.		2
	IC903	LB1416S	I.C.		1
	IC901,IC902	UPC1228H	I.C		2
	Q904 ,Q907	2SA733A(P,K)	TRANSISTOR		2
⚠	Q902	2SC1318(R,S)	TRANSISTOR		1
	Q107 ,Q207	2SC1344(E,F)	TRANSISTOR		2
	Q106 ,Q206	2SC1684(R,S)	TRANSISTOR		2
	Q903	2SC945(P,K)	TRANSISTOR		1
	Q905 ,Q906	2SC945(P,Q)	TRANSISTOR		2
	Q102 ,Q104	2SC945L(P,K)	TRANSISTOR		6
	Q105 ,Q202				
	Q204 ,Q205				
⚠	Q901	2SD882(Q,P)	SI.TRANSISTOR		1
	Q101 ,Q103	2SK246(GR)E2	FET		4
	Q201 ,Q203				
	D909 -D911	GL-9HY94	L.E.D		3
	D908 ,D912	GL-9PR4	L.E.D		4
	D913 ,D914				
⚠	D905	RD12E(B2)	Z.DIODE		1
	D919	RD6.2E(B3)	Z DIODE		1
	D906 ,D907	1SS254T-77	SI.DIODE		6
	D915 -D918				
⚠	D901 -D904	11E1-TB2	SI DIODE		4
	VR901	QVN5A2A-054M	V.RESISTOR		1
	S3 ,S4	QSL4310-013	LEVER SWITCH	NR-DUBING	2
⚠	S1	QSP0219-061	PUSH SWITCH	POWER SWITCH	1
⚠	——	QSS2325-205	SLIDE SWITCH	VOLTAGE SELECT U	1
	S5	QSS6201-204A	SLIDE SWITCH		1
	S2	QST5102-V02	PUSH SWITCH	DECK A TAPE SELECT	1
	L901	VQH1008-006	COIL		1
	L102 ,L202	VQP0001-183S	INDUCTOR		2
	L103 ,L203	VQP0001-562S	INDUCTOR		2
	L101 ,L201	VQZ0024-001	FILTER		2
	R922	QRD129J-181	CARBON RESISTOR		1
⚠	R905	QRD129J-820	CARBON RESISTOR		1
⚠	R901	QRD149J-1R0S	CARBON RESISTOR		1
⚠	R907	QRD149J-180S	CARBON RESISTOR		6
⚠	R909	QRD149J-2R2S	CARBON RESISTOR		1
⚠	R902	QRD149J-471S	CARBON RESISTOR		1
⚠	R906	QRD149J-680S	CARBON RESISTOR		1
	R103 ,R114	QRD161J-101	CARBON RESISTOR		6
	R138 ,R203				
	R214 ,R238				
	R119 ,R147	QRD161J-102	CARBON RESISTOR		7
	R219 ,R247				
	R903 ,R946				
	R955				
	R136 ,R143	QRD161J-103	CARBON RESISTOR		11
	R236 ,R243				
	R915 ,R930				
	R931 ,R932				
	R940 ,R949				
	R950				
	R130 ,R131	QRD161J-104	CARBON RESISTOR		6
	R135 ,R230				

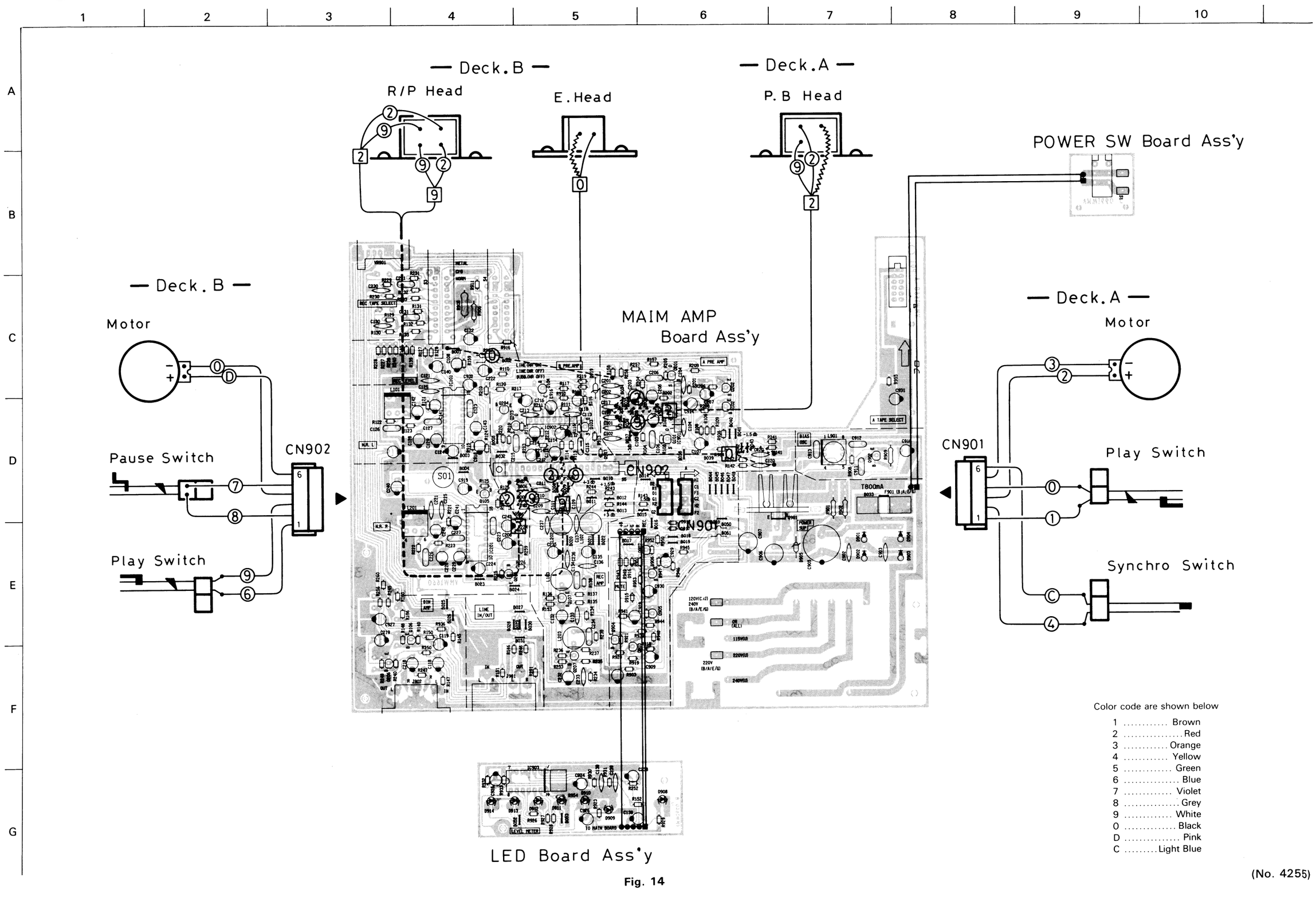
⚠	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QTY
	R231 ,R235	QRD161J-104	CARBON RESISTOR		
	R109 ,R116	QRD161J-105	CARBON RESISTOR		4
	R209 ,R216				
⚠	R904 ,R910	QRD161J-121	CARBON RESISTOR		2
	R137 ,R237	QRD161J-122	CARBON RESISTOR		2
	R127 ,R139	QRD161J-123	CARBON RESISTOR		4
	R227 ,R239				
	R911 ,R935	QRD161J-124	CARBON RESISTOR		2
	R140 ,R149	QRD161J-125	C RESISTOR		4
	R240 ,R249				
	R158 ,R258	QRD161J-153	CARBON RESISTOR		2
	R129 ,R229	QRD161J-154	CARBON RESISTOR		2
	R124 ,R224	QRD161J-182	CARBON RESISTOR		3
	R942				
	R142 ,R242	QRD161J-183	CARBON RESISTOR		3
	R941				
	R121 ,R221	QRD161J-222	CARBON RESISTOR		3
	R934				
	R134 ,R144	QRD161J-223	CARBON RESISTOR		18
	R150 ,R152				
	R159 ,R160				
	R234 ,R244				
	R250 ,R252				
	R259 ,R260				
	R918 ,R920				
	R921 ,R944				
	R951 ,R952				
	R132 ,R148	QRD161J-224	CARBON RESISTOR		4
	R232 ,R248				
	R146 ,R151	QRD161J-332	CARBON RESISTOR		5
	R246 ,R251				
	R936				
	R912	QRD161J-334	CARBON RESISTOR		1
	R106 ,R117	QRD161J-392	CARBON RESISTOR		5
	R206 ,R217				
	R913				
	R110 ,R118	QRD161J-393	CARBON RESISTOR		9
	R120 ,R157				
	R210 ,R218				
	R220 ,R257				
	R954				
	R947	QRD161J-471	CARBON RESISTOR		1
	R122 ,R126	QRD161J-472	CARBON RESISTOR		8
	R222 ,R226				
	R908 ,R916				
	R943 ,R945				
	R128 ,R140	QRD161J-473	CARBON RESISTOR		6
	R141 ,R228				
	R240 ,R241				
	R105 ,R115	QRD161J-512	CARBON RESISTOR		4
	R205 ,R215				
	R926 -R928	QRD161J-560	CARBON RESISTOR		3
	R108 ,R156	QRD161J-562	CARBON RESISTOR		5
	R208 ,R256				
	R939				

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QTY
	R145 ,R245	QRD161J-563	CARBON RESISTOR		2
	R153 ,R253	QRD161J-564	CARBON RESISTOR		2
	R953	QRD161J-6R8	CARBON RESISTOR		1
	R104 ,R113	QRD161J-622	C RESISTOR		4
	R204 ,R213				
	R123 ,R223	QRD161J-680	CARBON RESISTOR		2
	R923 ,R929	QRD161J-681	CARBON RESISTOR		2
	R125 ,R225	QRD161J-682	CARBON RESISTOR		3
	R919				
	R133 ,R233	QRD161J-683	CARBON RESISTOR		2
	R101 ,R102	QRD161J-684	CARBON RESISTOR		8
	R111 ,R112				
	R201 ,R202				
	R211 ,R212				
	R933	QRD161J-823	CARBON RESISTOR		1
	R907	QRH141J-180	FUSI RESISTOR		1
	C902 ,C903	QCF11HP-103	C CAPACITOR		2
	C104 ,C113	QCS11HJ-151	C.CAPACITOR		6
	C137 ,C204				
	C213 ,C237				
	C144 ,C244	QCS11HJ-181	C.CAPACITOR		2
	C120 ,C220	QCS11HJ-221	C.CAPACITOR		2
	C102 ,C110	QCS11HJ-391	C.CAPACITOR		6
	C136 ,C202				
	C210 ,C236				
	C101 ,C111	QCS11HJ-471	C.CAPACITOR		6
	C121 ,C201				
	C211 ,C221				
	C109 ,C117	QCS11HJ-561	C CAPACITOR		4
	C209 ,C217				
	C130 ,C139	QCY41HK-102	C.CAPACITOR		4
	C230 ,C239				
	C125 ,C225	QCY41HK-103	C.CAPACITOR		2
	C103 ,C112	QEB61EM-475ZM	LLC E CAPACITOR		4
	C203 ,C212				
	C906 ,C907	QETC1CM-227ZM	E.CAPACITOR		10
	C914 ,C916				
	C124 ,C224	QET41AR-107	E CAPACITOR		4
	C908 ,C927				
	C105 ,C114	QET41AR-476	E CAPACITOR		6
	C205 ,C214				
	C918 ,C926				
	C916	QET41CR-227	E CAPACITOR		1
	C919	QET41CR-336	E CAPACITOR		1
	C107 ,C116	QET41ER-106	E CAPACITOR		9
	C143 ,C207				
	C216 ,C243				
	C910 ,C924				
	C925				
	C909 ,C930	QET41ER-475	E.CAPACITOR		2
	C128 ,C228	QET41HR-104	E CAPACITOR		2
	C108 ,C119	QET41HR-105	E.CAPACITOR		16
	C122 ,C132				
	C135 ,C142				
	C208 ,C219				

⚠	REF. NO	PARTS NO.	PARTS NAME	REMARKS	QT
	C222 ,C232				
	C235 ,C242				
	C928 ,C929				
	C931 ,C932				
	C140 ,C240	QET41HR-335	E.CAPACITOR		2
	C118 ,C129	QET41HR-475	E CAPACITOR		8
	C138 ,C141				
	C218 ,C229				
	C238 ,C241				
	C905	QET51HR-108N	E CAPACITOR		1
	C131 ,C231	QFN41HJ-102	M CAPACITOR		2
	C123 ,C223	QFN41HJ-182	M CAPACITOR		2
	C127 ,C227	QFN41HJ-272	M.CAPACITOR		2
	C913	QFP82AJ-103	P.P.CAPACITOR		1
	C106 ,C115	QFV41HJ-103	TF CAPACITOR		5
	C206 ,C215				
	C912				
	C133 ,C233	QFV41HJ-154	T F CAPACITOR		2
	C134 ,C234	QFV41HJ-183	M.CAPACITOR		2
	C911	QFV41HJ-223	M.CAPACITOR		1
	C126 ,C226	QFV41HJ-683	TF CAPACITOR		2
	J901	EMN00TV-402A	PIN JACK		1
	J902	QMC9014-007	DIN SOCKET	TD-W10G	1
	—	VYSS104-003	SPACER	FOR REC WIRE	1

Wiring Connections



Color code are shown below

1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Grey
9	White
0	Black
D	Pink
C	Light Blue

Fig. 14

Exploded View of Mechanism Ass'y

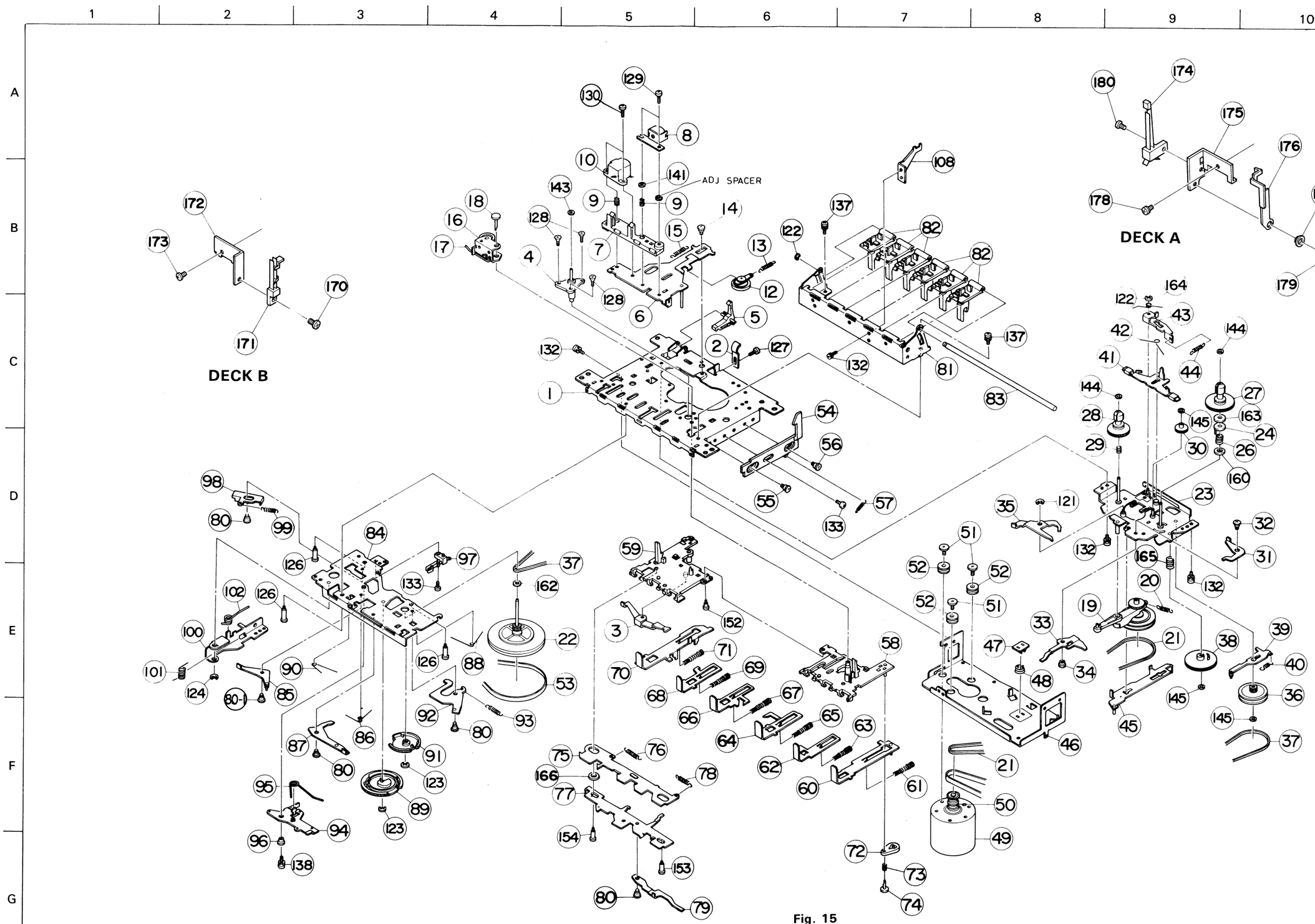


Fig. 15

Exploded View of Enclosure Ass'y

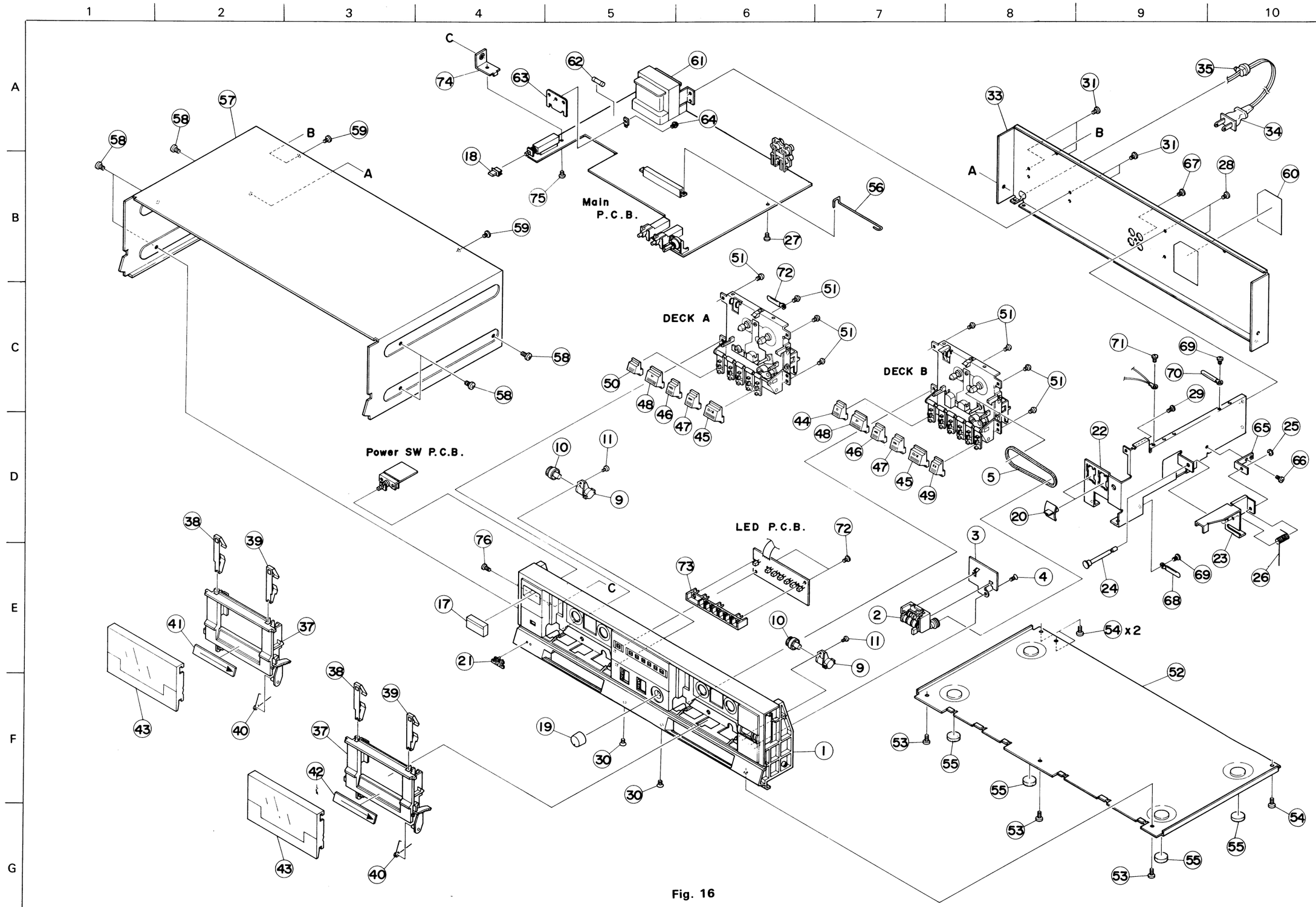


Fig. 16

Mechanism Parts List

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	18200101T	CHASSIS BASE		1
	2	18200102T	PACK SPRING		1
	3	18200202T	STOPPER		1
	4	18201207T	FLYWHEEL METAL		1
	5	18000201T	REC.S. LEVER	DECK B	1
	6	182003501ZT	HEAD PANEL		1
	7	18200311T	HEAD BASE		1
	8	HY424854VVS	R/P HEAD	DECK B	1
		HY424854VVS	P.B.HEAD	DECK A	1
	9	14400315T	HEAD SPRING	R/P HEAD	1
	9-1	14400312T	HEAD SPRING	ERASER HEAD	1
	10	E-321	E HEAD	DECK B	1
		VKS4710-001	DUMMY HEAD	DECK A	1
	12	182003301ZT	T-UP ROLLER	PLATE ASS'Y	1
	13	18200312T	SPRING	T-UP ROLLER PLATE	1
	14	17100319AT	SCREW		1
	15	18200302T	SPRING	HEAD PANEL	1
	16	182004303ZT	PINCH ROLLER		1
	17	18200403T	P.ROLLER SPRING		1
	18	17152015T	STOPPER		1
	19	182007301ZT	RF.CLUTCH ASS'Y		1
	20	18200704T	SPRING	RF.CLUTCH ARM	1
	21	17150606T	RF. BELT		1
	22	182012301ZT	FLYWHEEL ASS'Y		1
	23	182005505ZT	BRACKET		1
	24	18200814T	A.DETECT PIECE		1
	26	18200817T	A.S.D.PIECE SPRING		1
	27	182006301ZT	TAKE UP DISK		1
	28	180006302ZT	SUPPLY DISK		1
	29	18200604T	SPRING		1
	30	18000610T	GEAR	FF	1
	31	18200910T	T.R KICK LEVER	DECK B	1
	32	18200818T	COLLAR SCREW	DECK B	1
	33	18200805T	AUTO STOP LEVER		1
	34	18200811T	COLLAR	AUTO STOP LEVER	1
	35	18200911T	KICK LEVER	DECK B	1
	36	18200801T	PULLEY		1
	37	18200809T	BELT	AUTO STOP	1
	38	18200802T	CAM GEAR		1
	39	18200803AT	DETECT LEVER		1
	40	18200810T	DETECT LEVER SPRING		1
	41	182009301ZT	BRAKE ARM		1
	42	18200902T	BRAKE SPRING		1
	43	18200905T	A.S.G.LEVER		1
	44	18200913T	LEVER SPRING		1
	45	18200903AT	LEVER		1
	46	18201301T	FM BRACKET		1
	47	18201302T	FL.THRUST PLATE		1
	48	18201310T	THRAST SPRING		1
⚠	49	EG-500AD-2B	DC MOTOR		1
	50	18201308T	MOTOR PULLEY		1
	51	18201305T	COLLAR SCREW	MOTOR	3
	52	18201306T	MOTOR RUBBER	MOTOR	3
	53	18201303T	CAPSTAN BELT		1
	54	18201401T	EJECT LEVER		1
	55	LPSP2006Z	SCREW		1
	55-1	18201402T	COLLAR		1
	56	SPSP2605Z	SCREW		1
	56-1	18201403T	COLLAR		1
	57	15590306T	SPRING	EJECT SLIDE LEVER	1
	58	18201001AT	BUTTON BASE (L)		1
	59	18201002AT	BASE		1
	60	182010505ZT	LEVER	PAUSE BUTTON DECK B	1
	61	18201026T	LEVER SPRING	DECK B	1
	62	18201022T	LEVER	STOP BUTTON	1
	63	18201027T	BUTTON LEVER SPRING		1
	64	18201021T	LEVER	FF BUTTON	1
	65	18000903T	B.LEVER SPRING		1
	66	18201020T	LEVER	REW BUTTON	1
	67	18201026T	LEVER SPRING		1
	68	18201019T	LEVER	PLAY BUTTON	1
	69	18201026T	LEVER SPRING		1
	70	18201018T	LEVER	REC.BUTTON	1
	71	18201026T	LEVER SPRING		1
	72	18201041T	PAUSE LEVER	DECK B	1
	73	18201034T	LEVER SPRING	DECK B	1
	74	18201032T	STOPPER	DECK B	1
	75	18201042T	BUTTON CAM		1
	76	18201052T	STOPER SPRING	BUTTON CAM	1
	77	18201010T	SWITCH CAM		1
	78	18201031T	SPRING	SWITCH CAM	1
	79	18201011T	KICK LEVER		1
	80	18200819T	SCREW		1
		18200819T	SCREW	REC.FUNCTION	1
		18200819T	SCREW	DECK B	1
		18200819T	SCREW	DECK B	1
	80-1	18201137T	SCREW	M.TRIGGER ARM	1
	81	18201015T	BUTTON FRAME		1
	82	18201028T	FUNCTION LEVER		6
	83	18201016T	LEVER SHAFT		1
	84	182011501ZT	CHASSIS BASE	DECK B	1
		182011527ZT	SUB CHASSIS ASS'Y	DECK A	1
	85	182011510ZT	ARM ASS'Y		1
	86	18201126T	SPRING	M.TRIGGER ARM	1
	87	182011503ZT	ARM ASS'Y	DECK B	1
	88	18201127T	SPRING	DECK B	1
	89	18201103T	MAIN GEAR		1
	90	18201131T	SPRING	MAIN GEAR	1
	91	18201104T	PAUSE GEAR	DECK B	1
	92	182011504ZT	PAUSE ARM ASS'Y	DECK B	1
	93	17000932T	SPRING	DECK B	1
	94	182011505ZT	LIFT ARM ASS'Y		1
	95	18201129T	SPRING	LIFT ARM	1
	96	18201130T	COLLAR	LIFT ARM	1
	97	64010170T	LEAF SWITCH	MSW-1412TNBK	1
	98	18201121T	PLATE	REC.FUNCTION	1
	99	17001612T	SPRING	REC.FUNCTION PLATE	1
	100	18201122T	RECORDING ARM		1
	101	18201124T	SPRING	REC.ARM	1
	102	18201136T	SPRING	REC.DAMPER	1

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	108	18201035T	B.SHAFT STOPPER		1
	121	REE1200	E.RING	KICK LEVER DECK B	1
		REE2000	E.RING	DECK B	1
	122	REE1500	E.RING	LEVER SHAFT	1
		REE1500	E.RING		1
	123	REE2000	E.RING		1
	124	REE3000	E.RING		1
	126	18201137T	SCREW		3
	127	SPST2603Z	TH.TAP.SCREW	PACK SPRING	1
	128	SSSK2030M	MINI SCREW	FL METAL	3
	129	SPSX2007Z	PM. SCREW	R/P HEAD	2
	130	SPSP2008Z	SCREW	ERASER HEAD	2
	132	LPSP2004Z	ASSY SCREW		1
		LPSP2004Z	ASSY SCREW		1
		LPSP2004Z	ASSY SCREW	RELL BRACKET	2
	133	SPSP2004Z	SCREW		1
		SPSP2004Z	SCREW	FM BRACKET	1
	137	LPSP2604Z	SCREW		2
	138	LPSP2606Z	SCREW		1
	141	93160000T	WASHER		1
	143	93720000T	WASHER	OIL CUT	1
	144	94970000T	E-RING		1
		94970000T	E-RING	T-UP REEL 1.5 X 3	1
	145	94210000T	POLY.WASHER	PULLEY	1
		94210000T	POLY.WASHER	FF GEAR	1
		94210000T	POLY.WASHER	CAM GEAR	1
	152	18201025T	SCREW		1
	153	18201029T	COLLAR SCREW		1
	154	18201030T	SCREW		1
	160	97910000T	POLY WASHER		1
	162	97890000T	P.SLIDER WASER	THRUST	1
	163	18200807T	FELT		1
	164	18200914T	SPRING	DECK B	1
	165	18200821T	CAM GEAR SPRING	DEAK B	1
	166	18201068T	SPACER		1
	170	91160000T	SCREW	DECK B	1
	171	64010172T	PAUSE SW	〃	1
	172	18201140T	SW. BRACKET	〃	1
	173	90770000T	SCREW	〃	1
	174	64050117T	LEAF SW	DECK A	1
	175	18201177T	SW. BRACKET	〃	1
	176	18201178T	SW. LEVER	〃	1
	177	18200806T	COLLAR	〃	1
	178	90770000T	SCREW	〃	1
	179	95660000T	〃	〃	1
	180	91160000T	〃	〃	1

Enclosure Parts List

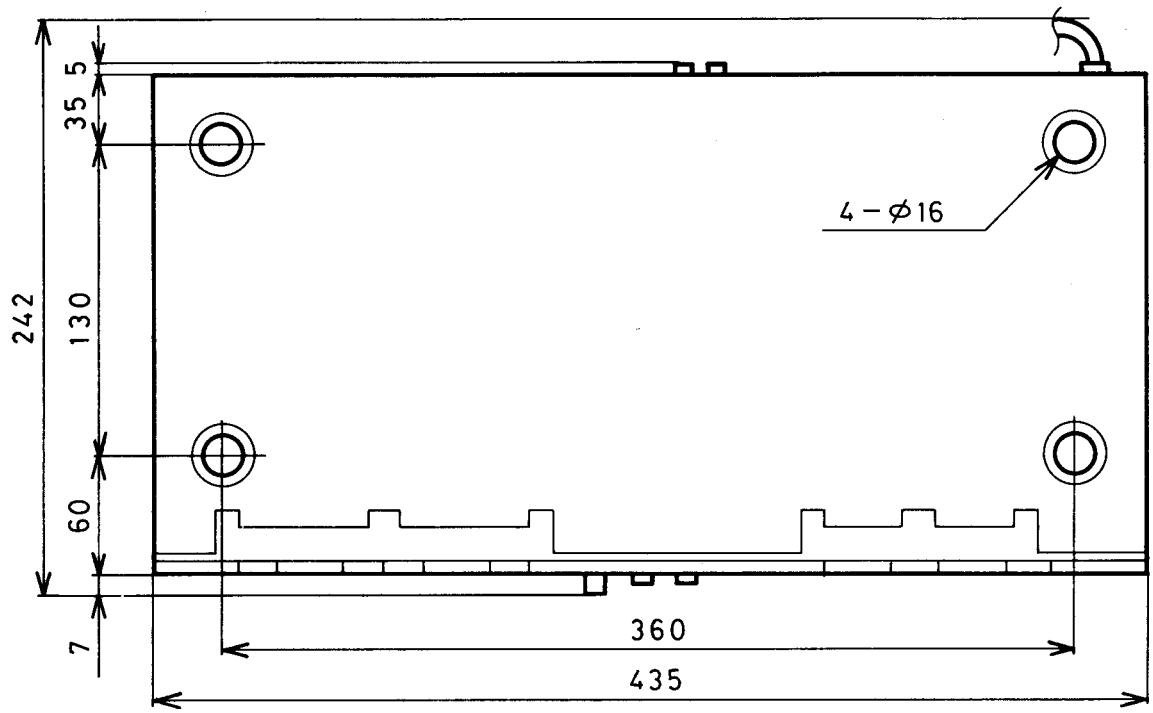
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

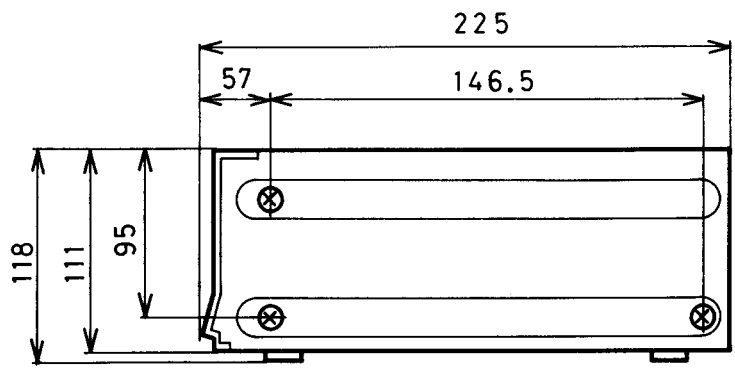
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VJC1466-003	FRONT PANEL	TD-W10A/B/C/E/U/G (BK)	1
		VJC1466-001	FRONT PANEL	" (SL)	1
⚠		VJC1466-004UL	FRONT PANEL	TD-W10J (BK)	1
⚠		VJC1466-002UL	FRONT PANEL	TD-W10J (SL)	1
	2	VKC5183-001T	COUNTER		1
	3	VKL5900-001	COUNTER BKT		1
	4	SSSF3010Z	SCREW	COUNTER BRAKET	1
	5	VKB3000-093	BELT	COUNTER	1
	9	VYH5033-002	DAMPER HOLDER		2
	10	VYH4769-002	GEAR	GREASE G-332	2
	11	SSSF3010Z	SCREW	DUMPER	2
	17	VXP3131-001	POWER KNOB		1
	18	VXP4216-003	PUSH BUTTON	A TAPE SELECT	1
	19	VXL4255-001	VOLUME KNOB	INPUT LEVEL	1
	20	VXQ4074-002	KNOB	NR/B TAPE SELECT	2
	21	E70913-001	MARK	(BK)	1
		E70913-002	MARK	(SL)	1
	22	VKL3684-001	AMP CHASSIS		1
	23	VKL5924-001	REC ARM		1
	24	VKH4771-001	SHAFT		1
	25	REE3000	E-WASHER		1
	26	VKW4565-001	SPRING	REC.	1
	27	SDST3006Z	SCREW	CHASSIS-PWB	1
	28	SDST3006Z	SCREW	CHASSIS-REAR	2
	29	SDSF3008Z	SCREW	CHASSIS-PANEL	1
	30	SSSF3008Z	SCREW	CHASSIS-PANEL	2
	33	VJC2199-001	REAR PANEL	TD-W10A/B/C/E/J	1
		VJC2199-002	REAR PANEL	TD-W10U	1
		VJC2199-003	REAR PANEL	TD-W10G	1
⚠	34	QMP1200-200	POWER CORD	TD-W10C/J	1
⚠		QMP2560-200	POWER CORD	TD-W10A	1
⚠		QMP3900-200	POWER CORD	TD-W10E/G	1
⚠		QMP7600-200	POWER CORD	TD-W10U	1
⚠		QMP9017-008BS	POWER CORD	TD-W10B	1
⚠	35	QHS3876-162	S.R.BUSHING	TD-W10A/C/E/G/J/U	1
⚠		QHS3876-162BS	S.R.BUSHING	TD-W10B	1
	37~39,41	ZCTDW10-CHSLA	CASSETTE HOLDER ASS'Y	DEAK A (SL)	1
		ZCTDW10-CHBKA	CASSETTE HOLDER ASS'Y	DECK A (BK)	1
	37~39,42	ZCTDW10-CHSLB	CASSETTE HOLDER ASS'Y	DECK B (SL)	1
		ZCTDW10-CHBKB	CASSETTE HOLDER ASS'Y	DECK B (BK)	1
	37	VJT2106-001	CASSETTE HOLDER		2
	38	VKY4271-005	C.SPRING	LEFT	2
	39	VKY4271-006	C.SPRING	RIGHT	2
	40	VKW4397-002	SPRING		2
	41	VJD4895-002	HOLDER PLATE	DEAK A	1
	42	VJD4895-004	"	DECK B	1
	43	VJT3140-005	LID		2
	44	VXP3129-007	PUSH BUTTON	REC (BK)	1
		VXP3129-001	PUSH BUTTON	REC (SL)	1
	45	VXP3129-008	PUSH BUTTON	STOP/EJECT (BK)	2
		VXP3129-002	PUSH BUTTON	STOP/EJECT (SL)	1
	46	VXP3129-009	PUSH BUTTON	REW (BK)	2
		VXP3129-003	PUSH BUTTON	REW (SL)	2
	47	VXP3129-010	PUSH BUTTON	FF (BK)	2

⚠ Parts are safety assurance parts
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	47	VXP3129-004	PUSH BUTTON	FF (SL)	2
	48	VXP3129-011	PUSH BUTTON	PLAY (BK)	2
		VXP3129-005	PUSH BUTTON	PLAY (SL)	2
	49	VXP3129-012	PUSH BUTTON	PAUSE (BK)	1
		VXP3129-006	PUSH BUTTON	PAUSE (SL)	1
	50	VXP4484-002	PUSH BUTTON	SYNCHRO (BK)	1
		VXP4484-001	PUSH BUTTON	SYNCHRO (SL)	1
	51	SBSF3008Z	SCREW	MECHA	8
	52	VJC2192-001	BOTTOM COVER		1
	53	SDSF3008Z	SCREW	BOTTOM (FRONT)	3
	54	SDST3006Z	SCREW	BOTTOM (REAR)	3
	55	VJF4003-002	FOOT		4
	56	VKW4564-001	REC WIRE		1
	57	VJC2193-004	TOP COVER	(BK)	1
		VJC2193-003	TOP COVER	(SL)	2
	58	SDSB4010M	SCREW	TOP COVER (BK)	6
		SDSB4010R	SCREW	(SL)	6
	59	SDST3006Z	SCREW	TOP	1
	60	VYN2164-002PA	NAME PLATE	TD-W10B	1
		VYN2164-003PA	NAME PLATE	TD-W10A	1
		VYN2164-005PA	NAME PLATE	TD-W10E	1
		VYN2164-006PA	NAME PLATE	TD-W10J	1
		VYN2164-007PA	NAME PLATE	TD-W10U	1
		VYN2164-008PA	NAME PLATE	TD-W10G	1
⚠	61	VTP54A2-041B	POWER TRANSF.	TD-W10C/J	1
⚠		VTP54M2-031B	POWER TRANS	TD-W10A/E/G	1
⚠		VTP54M2-031BBS	POWER TRANS	TD-W10B	1
⚠		VTP54N2-031B	POWER TRANS	TD-W10U	1
⚠	62	QMF51A2-R80	FUSE	TD-W10U	1
⚠		QMF51A2-R80	FUSE	TD-W10A/E/G	1
⚠		QMF51E2-R80BS	FUSE	TD-W10B	1
⚠	63	VKL5002-001	HEAT SINK	Q901	1
	64	DPSP3008Z	SCREW	HEAT SINK	1
	65	VKL5929-001	BRACKET		1
	66	SDST3006Z	SCREW		1
	73	VYH5923-001	LED HOLDER		1
		SDSF3006Z	SCREW	PIN JACK	1
		VKZ4001-010	WIRE HOLDER		1
		SDST3006Z	SCREW	WIRE HOLDER	2
		VKZ4001-011	WIRE HOLDER		1
		SSF3008Z	SCREW		1
		〃	〃	LED P. W. B.	2
		VYH5923-001	LED HOLDER		1
		LPSP3006Z	SCREW	POWER TRANS	4
	67	SDSF3006Z	SCREW	PIN JACK	1
	68	VKZ4001-010	WIRE HOLDER	WIRE HOLDER	1
	69	SDST3006Z	SCREW		2
	70	VKZ4001-011	WIRE HOLDER		1
	71	SSSF3008Z	SCREW		1
	72	〃	〃	LED P. W. B.	2
	73	VYH5923-001	LED HOLDER		1
	31	LPSP3006Z	SCREW	POWER TRANS	4
	74	VYH5926-001	BRACKET		1
	75	SDST3006Z	SCREW		1
	76	SDST3008Z	SCREW		1

Dimensions





Unit : mm

Fig. 17

Packing

Positions of Controls and Switch Knobs at Renewed Packing

POWER Switch	: OFF
NR SYSTEM Switch	: OFF
TAPE SELECT Switch	: NORM
INPUT LEVEL Volume Control	: MAX
TAPE COUTER	: 000
Mechanism Operation Button	: OFF

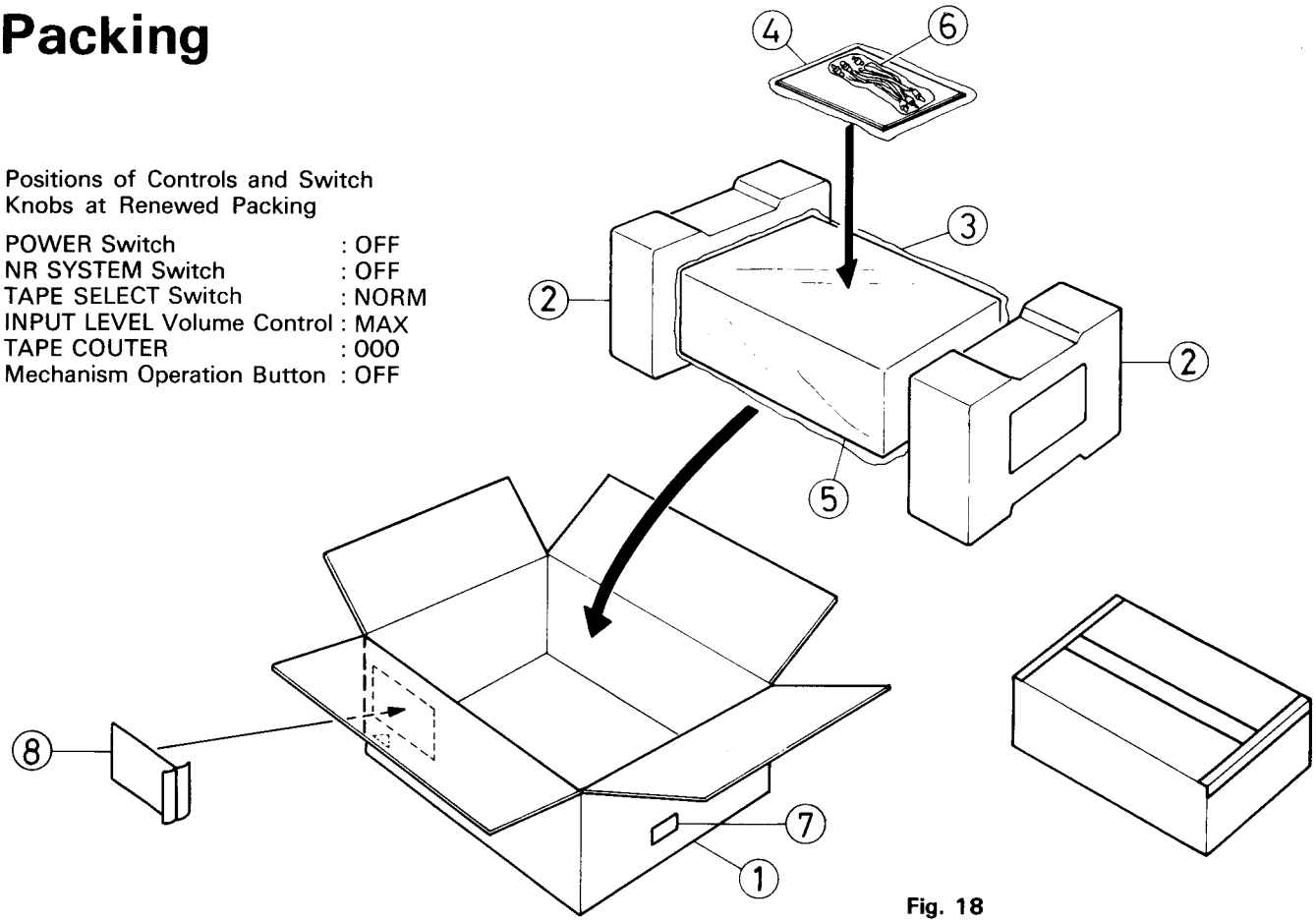


Fig. 18

	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPC2165-002	Carton	TD-W10B (BK)	1
	"	VPC2164-002	"	" B (SL)	1
	"	VPC2165-003	"	" A (BK)	1
	"	VPC2164-003	"	" A (SL)	1
	"	VPC2165-004	"	" C (BK)	1
	"	VPC2164-004	"	" C (SL)	1
	"	VPC2165-005	"	" E (BK)	1
	"	VPC2164-005	"	" E (SL)	1
	"	VPC2165-006	"	" J (BK)	1
	"	VPC2164-006	"	" J (SL)	1
	"	VPC2165-007	"	" U (BK)	1
	"	VPC2164-007	"	" U (SL)	1
	"	VPC2165-008	"	" G (BK)	1
	"	VPC2164-008	"	" G (SL)	1
	2	VPH2219-001	Cushion	Left Side	1
	2	VPH2220-001	"	Right Side	1
	3	VPE3005-026	Poly Bag	for Unit	1
	4	VPE3005-007	"	for Accessories	1
	5	TKS000501-08	Sheet	for Unit	1
	—	Q04141H	Wire Clanp	for Power Cord	1
	7	VPZ4001-001	Serial Ticket		1
	8	E66416-003	Envelope	TD-W10J/U	1

Accessories

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
		VNN0170-301	Instruction Book	TD-W10B/E/G	1
		" -901	"	TD-W10A/C/J/U	1
		" -801	"	TD-W10E (for Holland, Belgium)	1
		VMP0039-00B	Pin Cord		1
		BT20060	Warranty Card	TD-W10B	1
		BT20066	"	TD-W10B	1
		TJL000420-01	Label	TD-W10E (Black type)	1
		TJL000443-01	"	" (Silver type)	1
		QZL1002-003	Warning Label	TD-W10B	1
		VNC5004-001	Mark Sticker	"	1
		VND4113-001	G. Caution	TD-W10B/E/J	1
		BT20029C	Warranty Card	TD-W10A	1
		VND4033-010	Sticker	TD-W10A/C/E/G/U	1
		VNC2200-011	Inst sheet	TD-W10G	
		BT20025H		TD-W10C	1
		T44362-001	CSA Label	"	1
		BT20071A	SVC Center List	"	1
		VNC1200-002	Copyright Law, W.	"	1
		VNC5004-001	Mark Sticker	TD-W10B (DIN 45500)	1
		BT20047C	Warranty Card	TD-W10J/U	1
		BT20046B	Special Reply	"	1
		BT20044E	Safety Guide	TD-W10J	1
		VNC5311-204	Caution Card	TD-W10U (PX)	1
		" -203	"	" (EES)	1
		V04062-001	Siemens Plug	TD-W10U	1
		BT20064	Warranty Card	TD-W10G	1
		BT20066	"	TD-W10G (for JED)	1
		VNC5004-001	Mark Sticker	"	1
		VND4037-002	F. Mark	"	1

JVC
VICTOR COMPANY OF JAPAN, LIMITED.
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan

Printed in
-6007-